

10/823377

Connecting via Winsock to STN

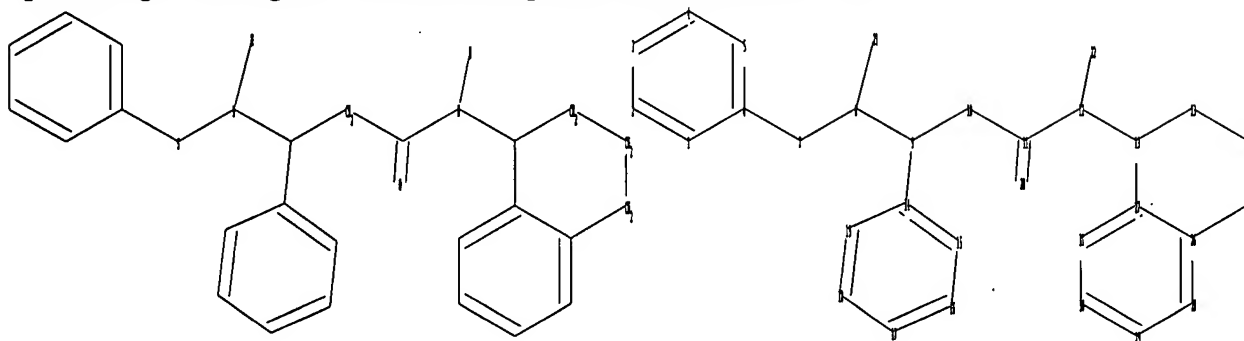
Welcome to STN International! Enter x:x

\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 12:58:22 ON 03 MAY 2007

=>

Uploading C:\Program Files\Stnexp\Queries\10823377.str



chain nodes :

7 8 9 10 11 12 20 21 22

ring nodes :

1 2 3 4 5 6 13 14 15 16 17 18 19 23 24 25 26 27 28 29 30 31

chain bonds :

6-7 7-8 8-9 8-21 9-10 9-14 10-11 11-12 11-20 12-13 12-22

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 13-23 13-27 14-15 14-19 15-16 16-17 17-18

18-19 23-24 24-25 25-26 26-27 26-28 27-31 28-29 29-30 30-31

exact/norm bonds :

6-7 7-8 8-9 11-12 11-20 12-13

exact bonds :

8-21 9-10 9-14 10-11 12-22 13-23 13-27 23-24 24-25 25-26

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 14-15 14-19 15-16 16-17 17-18 18-19 26-27

26-28 27-31 28-29 29-30 30-31

isolated ring systems :

containing 13 : 14 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS  
11:CLASS 12:CLASS 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom  
20:CLASS 21:CLASS 22:CLASS 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom  
29:Atom 30:Atom 31:Atom

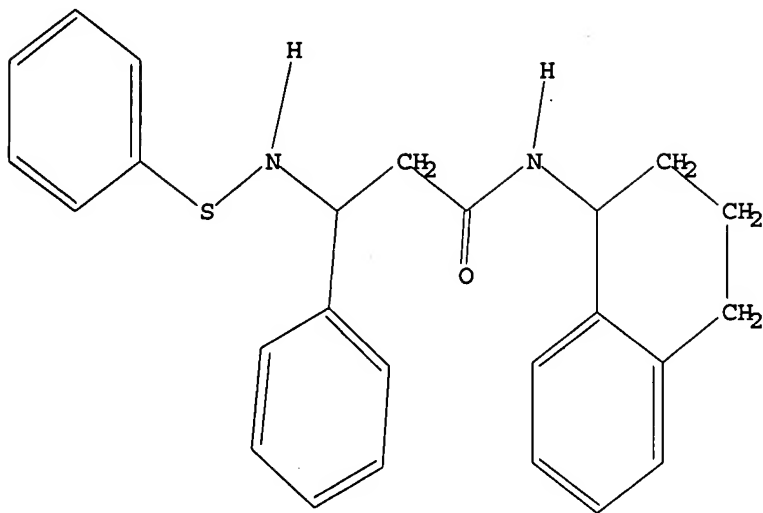
10/823377

L1        STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1                STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 full

L3                192 SEA SSS FUL L1

=> file ca

=> s l3

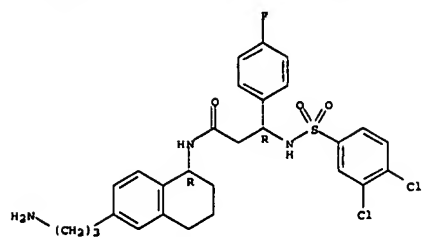
L4                2 L3

=> d ibib abs fhitstr 1-2



10/823377

L4 ANSWER 2 OF 2 CA COPYRIGHT 2007 ACS on STN (Continued)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS  
FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

10/823377

=> file marpat

COST IN U.S. DOLLARS

SINCE FILE

ENTRY

TOTAL

SESSION

FULL ESTIMATED COST

10.47

182.78

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

ENTRY

TOTAL

SESSION

CA SUBSCRIBER PRICE

-1.46

-1.46

FILE 'MARPAT' ENTERED AT 12:59:27 ON 03 MAY 2007

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE CONTENT: 1961-PRESENT VOL 146 ISS 18 (20070427/ED)

SOME MARPAT RECORDS ARE DERIVED FROM INPI DATA FOR 1961-1987

MOST RECENT CITATIONS FOR PATENTS FROM MAJOR ISSUING AGENCIES  
(COVERAGE TO THESE DATES IS NOT COMPLETE):

US 2007060644 15 MAR 2007

DE 102006023116 15 MAR 2007

EP 1762248 14 MAR 2007

JP 2007059877 08 MAR 2007

WO 2007030662 15 MAR 2007

GB 2429975 14 MAR 2007

FR 2890657 16 MAR 2007

RU 2295953 27 MAR 2007

CA 2556850 24 FEB 2007

Expanded G-group definition display now available.

=> s l1 full

FULL SEARCH INITIATED 12:59:30 FILE 'MARPAT'

FULL SCREEN SEARCH COMPLETED - 8583 TO ITERATE

100.0% PROCESSED 8583 ITERATIONS ( 1 INCOMPLETE)

1 ANSWERS

SEARCH TIME: 00.00.07

L5 1 SEA SSS FUL L1

=> d ibib abs fqhit

LS ANSWER 1 OF 1 MARPAT COPYRIGHT 2007 ACS on STN

(ALL HITS ARE ITERATION INCOMPLETE)

ACCESSION NUMBER:

140:247064 MARPAT

TITLE:

Method using quinolinecarboxamides and other heterocyclic compounds for preventing or treating atherosclerosis or restenosis

Wathen, Michael W.; Wathen, Lynne K.  
Pharmacia & Upjohn Company, USA  
PCT Int. Appl., 299 pp.  
CODEN: PIXXD2

INVENTOR(S):

PATENT ASSIGNER(S):

SOURCE:

DOCUMENT TYPE:

LANGUAGE:

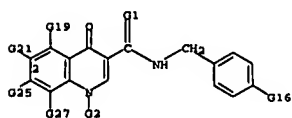
FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004019932	A1	20040311	WO 2003-US26962	20030828
W1	AB, AQ, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MM, MX, MY, NZ, NO, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	OH, OM, KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CP, CO, CI, CH, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TO			
AU 2003262947	A1	20040319	AU 2003-262947	20030828
US 2004186131	A1	20040923	US 2003-651309	20030828
PRIORITY APPLN. INFO.:			US 2002-407563P	20020830
			US 2003-467497P	20030502
			WO 2003-US26962	20030828

AB The invention provides a method for preventing or treating atherosclerosis or restenosis in mammals, which comprises administering an effective amount of a quinolinecarboxamide or other heterocyclic compound

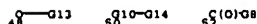
MSTR 3 ITERATION INCOMPLETE



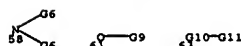
G1 = O / S  
G2 = CH2CH2OH / 25 / 39 / heterocycle <containing 1-3 heteroatoms, 1 or more N, zero or more O, zero or more S (no other heteroatoms)>

LS ANSWER 1 OF 1 MARPAT COPYRIGHT 2007 ACS on STN (Continued)

- G9 = alkyl <containing 1-7 C> (opt. substd. by OH) / heterocycle <containing 1-3 heteroatoms, zero or more N, zero or more O, zero or more S (no other heteroatoms), 0 or more double bonds, mono- or bicyclic, 4-, 5-, 6- or 7-membered rings only> (opt. substd.) / aryl <containing 6 or more C, mono- or bicyclic> (opt. substd.)
- G10 = S / S(O) / SO2
- G11 = aryl <containing 6 or more C, mono- or bicyclic> (opt. substd.) / heterocycle <containing 1-3 heteroatoms, zero or more N, zero or more O, zero or more S (no other heteroatoms), 0 or more double bonds, mono- or bicyclic, 4-, 5-, 6- or 7-membered rings only> (opt. substd.) / carbon chain <containing 1-7 C, 0 or more double bonds, 0 or more triple bonds> (opt. substd. by 1 or more G12)
- G12 = OH / 48 / heterocycle <containing 1-3 heteroatoms, zero or more N, zero or more O, zero or more S (no other heteroatoms), 0 or more double bonds, mono- or bicyclic, 4-, 5-, 6- or 7-membered rings only> (opt. substd.) / aryl <containing 6 or more C, mono- or bicyclic> (opt. substd.) / NH2 / alkylamino <containing 1-7 C> (opt. substd. by OH) / dialkylamino <each alkyl containing 1-7 C> (opt. substd. by OH) / CN / SH / SO / P / Cl / Br / I / S2

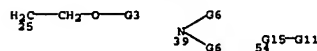


- G13 = alkyl <containing 1-7 C> (opt. substd. by OH) / aryl <containing 6 or more C, mono- or bicyclic> (opt. substd.)
- G14 = alkyl <containing 1-6 C> / aryl <containing 6 or more C, mono- or bicyclic> (opt. substd.)
- G15 = O / S / S(O) / SO2
- G16 = Cl / F / Br / CN / NO2
- G17 = SH / heterocycle <containing 1-3 heteroatoms, 1 or more N, zero or more O, zero or more S (no other heteroatoms), attached through 1 or more N, 0 or more double bonds, mono- or bicyclic, 4-, 5-, 6- or 7-membered rings only> (opt. substd.) / OH / 61 / CO2H / alkoxycarbonyl <containing 1-10 C> / heterocycle <containing 1-3 heteroatoms, zero or more N, zero or more O, zero or more S (no other heteroatoms), 0 or more double bonds, mono- or bicyclic, 4-, 5-, 6- or 7-membered rings only> (opt. substd.) / aryl <containing 6 or more C, mono- or bicyclic> (opt. substd.) / CN / 63 / alkoxy <containing 2-4 C> (opt. substd.)

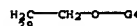


LS ANSWER 1 OF 1 MARPAT COPYRIGHT 2007 ACS on STN (Continued)

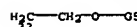
attached through 1 or more N, 0 or more double bonds, mono- or bicyclic, 4-, 5-, 6- or 7-membered rings only> (opt. substd.) / 54 / heterocycle <containing 1-3 heteroatoms, zero or more N, zero or more O, zero or more S (no other heteroatoms), attached through 1 or more C, 0 or more double bonds, mono- or bicyclic, 4-, 5-, 6- or 7-membered rings only> (opt. substd.) / carbon chain <containing 1-7 C, 0 or more double bonds, 0 or more triple bonds> (opt. substd. by 1 or more G17) / carbocycle <containing 3-8 C, 0 or more double bonds, 0 or more triple bonds> (opt. substd. by G18) / Ph (opt. substd.)



G3 = alkyl <containing 1-7 C> (opt. substd. by OH) / CH2CH2OH / 29



G4 = alkyl <containing 1-7 C> (opt. substd. by OH) / CH2CH2OH / 33



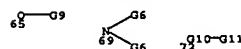
- G5 = alkyl <containing 1-7 C> (opt. substd. by OH)
- G6 = H / aryl <containing 6 or more C, mono- or bicyclic> (opt. substd.) / carbon chain <containing 1-7 C, 0 or more double bonds, 0 or more triple bonds> (opt. substd. by 1 or more G7)
- G7 = NH2 / alkylamino <containing 1-7 C> (opt. substd. by OH) / dialkylamino <each alkyl containing 1-7 C> (opt. substd. by OH) / 42 / OH / 44 / CO2H / alkoxycarbonyl <containing 1-10 C> / heterocycle <containing 1-3 heteroatoms, zero or more N, zero or more O, zero or more S (no other heteroatoms), 0 or more double bonds, mono- or bicyclic, 4-, 5-, 6- or 7-membered rings only> (opt. substd.) / aryl <containing 6 or more C, mono- or bicyclic> (opt. substd.) / CN / 46 / F / Cl / Br / I



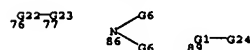
G8 = NH2 / alkylamino <containing 1-7 C> (opt. substd. by OH) / dialkylamino <each alkyl containing 1-7 C> (opt. substd. by OH)

LS ANSWER 1 OF 1 MARPAT COPYRIGHT 2007 ACS on STN (Continued)

- G18 = OH / 45 / CO2H / alkoxycarbonyl <containing 1-10 C> / heterocycle <containing 1-3 heteroatoms, zero or more N, zero or more O, zero or more S (no other heteroatoms), 0 or more double bonds, mono- or bicyclic, 4-, 5-, 6- or 7-membered rings only> (opt. substd.) / aryl <containing 6 or more C, mono- or bicyclic> (opt. substd.) / CN / 69 / heterocycle <containing 1-3 heteroatoms, 1 or more N, zero or more O, zero or more S (no other heteroatoms), attached through 1 or more N, 0 or more double bonds, mono- or bicyclic, 4-, 5-, 6- or 7-membered rings only> (opt. substd.) / 72 / alkyl <containing 1-7 C> (opt. substd.)



- G19 = H / F / Cl / Br / I / alkyl <containing 1-4 C> (opt. substd. by (1-3) G20)
- G20 = F / Cl / Br / I
- G21 = H / aryl <containing 6 or more C, mono- or bicyclic> (opt. substd.) / heterocycle <containing 1-3 heteroatoms, zero or more N, zero or more O, zero or more S (no other heteroatoms), 0 or more double bonds, mono- or bicyclic, 4-, 5-, 6- or 7-membered rings only> (opt. substd.) / 76 / 86 / 89 / carbon chain <containing 1-8 C, 0 or more double bonds, 0 or more triple bonds> (opt. substd.)



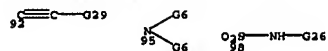
G22 = 78-2 79-77 / 80-2 81-77 / 82-2 83-77 / 84-2 85-77



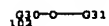
- G23 = H / heterocycle <containing 1-3 heteroatoms, zero or more N, zero or more O, zero or more S (no other heteroatoms), 0 or more double bonds, mono- or bicyclic, 4-, 5-, 6- or 7-membered rings only> (opt. substd.) / aryl <containing 6 or more C, mono- or bicyclic> (opt. substd.) / cycloalkyl <containing 3-8 C> / alkyl <containing 1-7 C> (opt. substd.)
- G24 = alkyl <containing 2-7 C> (opt. substd. by OH)
- G25 = H / F / Cl / Br / I / 92 / 95 / SO2NH2 / 98 / heterocycle <containing 1-3 heteroatoms, zero or more N, zero or more O, zero or more S (no other heteroatoms), 0 or more double bonds, mono- or bicyclic, 4-, 5-, 6- or 7-membered rings only> (opt. substd.) / alkyl <containing 1-7 C> (opt. substd. by OH)

10/823377

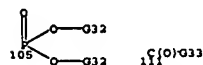
LS ANSWER 1 OF 1 MARPAT COPYRIGHT 2007 ACS on STN (Continued)



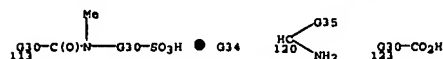
- G26 = heterocycle <containing 1-3 heteroatoms, zero or more N, zero or more O, zero or more S (no other heteroatoms), 0 or more double bonds, mono- or bicyclic, 4-, 5-, 6- or 7-membered rings only> (opt. substd.) / aryl <containing 6 or more C, mono- or bicyclic> (opt. substd.) / cycloalkyl <containing 3-8 C> / alkyl <containing 1-7 C> (opt. substd.)
- G27 = H / F / Cl / Br / I / alkylthio <containing 1-7 C> / alkoxy <containing 1-7 C> (opt. substd. by 1 or more G28) / carbon chain <containing 1-7 C, 0 or more double bonds, 0 or more triple bonds> (opt. substd.)
- G28 = F / Cl / Br / I / OH
- G29 = heterocycle <containing 1-3 heteroatoms, zero or more N, zero or more O, zero or more S (no other heteroatoms), 0 or more double bonds, mono- or bicyclic, 4-, 5-, 6- or 7-membered rings only> (opt. substd.) / 102 / alkyl <containing 1-7 C> (opt. substd.)



- G30 = (1-6) CH2
- G31 = PO3H2 / 105 / 111



- G32 = alkyl <containing 1-7 C>
- G33 = 113 / 120 / aryl <containing 6 or more C, mono- or bicyclic> (opt. substd.) / alkyl <containing 1-6 C> (opt. substd. by G36) / 123



- G34 = Na / K / Li
- G35 = R <"amino acid side chain">
- G36 = NH2 / alkylamino <containing 1-7 C> (opt. substd. by OH) / dialkylamino <each alkyl containing 1-7 C> (opt. substd. by OH)

LS ANSWER 1 OF 1 MARPAT COPYRIGHT 2007 ACS on STN (Continued)  
Derivative:  
Patent location: or pharmaceutically acceptable salts  
claim 1

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

10/823377

=> d his

(FILE 'HOME' ENTERED AT 12:58:22 ON 03 MAY 2007)

FILE 'REGISTRY' ENTERED AT 12:58:33 ON 03 MAY 2007

L1 STRUCTURE UPLOADED

L2 11 S L1 SAM

L3 192 S L1 FULL

FILE 'CA' ENTERED AT 12:59:03 ON 03 MAY 2007

L4 2 S L3

FILE 'MARPAT' ENTERED AT 12:59:27 ON 03 MAY 2007

L5 1 S L1 FULL

=> file ca

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

126.48

309.26

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-0.73

-2.19

FILE 'CA' ENTERED AT 13:01:29 ON 03 MAY 2007

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FILE COVERS 1907 - 26 Apr 2007 VOL 146 ISS 19

FILE LAST UPDATED: 26 Apr 2007 (20070426/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s brandykinin

L6 1 BRANDYKININ

=> s bradykinin

L7 17906 BRADYKININ

=> s 17 and py<2004

22728850 PY<2004



10/823377

L8 16177 L7 AND PY<2004

=> s l8 and (vitro and vivo)

641233 VITRO

431786 VIVO

L9 463 L8 AND (VITRO AND VIVO)

=> s l8 and (clinical stud?)

81347 CLINICAL

7962060 STUD?

4827 CLINICAL STUD?

(CLINICAL(W)STUD?)

L10 3 L8 AND (CLINICAL STUD?)

=> d ibib abs 1-3

L10 ANSWER 1 OF 3 CA COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 114:161845 CA  
 TITLE: Biochemical and clinical study of human liver prolyl endopeptidase  
 AUTHOR(S): Yoshioka, Nobuo  
 CORPORATE SOURCE: Med. Sch., Nagoya City Univ., Nagoya, 467, Japan  
 SOURCE: Nagoya-shiritsu Daigaku Igakkai Zasshi (1990) 1, 41(3), 441-53  
 CODEN: NASDAQ; ISSN: 0027-7606  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Japanese  
 AB To elucidate the physiol. role of prolyl endopeptidase (PEP) in liver, blood serum PEP activity in patients with various hepatic diseases was measured. In addition, PEP was isolated from human liver and its physicochem., immunochem., and enzymol properties were investigated. Serum PEP activity in patients with fulminant and chronic hepatitis was markedly increased compared to that in normal volunteers. A strong correlation was observed between serum PEP and  $\gamma$ -GTP in these patients. However, the activity in patients with acute hepatitis and cirrhosis was not increased. PEP was purified homogeneously by SDS-PAGE. Its purifying magnification was 28,800-fold higher than that of the liver soluble fraction and its recovery percentage was 51%. The mol. weight of PEP was 72,000. It was stable at 40° or lower and pH 6.8-8.5 (optimum pH 6.5-6.7). From the results of study on the effects of various chemical substances on PEP activity, PEP is thought to be a serine protease. Anti-human hepatic PEP formed a homogenous sedimentation line against purified PEP from human liver extract fluid and human placenta extract fluid in double immunodiffusion. These sedimentation lines fused each other, suggesting that PEP is not organ specific. PEP cleaved proteins with mol. weight lower than 3,000 with proline-alanine bonds, but not proteins with mol. weight higher than 3,000. PEP decomposed angiotensin, oxytocin, and bradykinin, but not insulin or glucagon. These results suggest that PEP is probably useful as a new indicator of hepatic diseases.

L10 ANSWER 2 OF 3 CA COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 106:188950 CA  
 TITLE: Assessment of the analgesic effect of clofelin in cardiogenic pain (experimental and clinical study)  
 AUTHOR(S): Ignatov, Yu. D.; Mikhailovich, V. A.; Zaitsev, A. A.; Kuznetsova, O. Yu.; Panov, A. V.; Sinitsein, M. A.  
 CORPORATE SOURCE: 1 Leningr. Med. Inst., Leningrad, USSR  
 SOURCE: Farmakologiya i Toksikologiya (Moscow) (1987) 50(2), 36-9  
 CODEN: PATOAO; ISSN: 0014-8318  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Russian  
 AB Clofelin [4205-91-8] (0.1-0.25 mg/kg) depressed the emotional-behavioral manifestations evoked by introduction of bradykinin into the right atrium of the heart of the conscious rat. Unlike promedol (2-5 mg/kg), clofelin eliminated the pressor response to the exptl. angina. In humans during the acute period of myocardial infarction, clofelin taken orally (0.00015 g) decreased the emotional and motor manifestations associated with angina and stabilized central hemodynamics.

L10 ANSWER 3 OF 3 CA COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 81:116648 CA  
 TITLE: Experimental and clinical studies of renal arteriography with bradykinin  
 AUTHOR(S): Tsujita, Masaki  
 CORPORATE SOURCE: Med. Sch., Osaka City Univ., Osaka, Japan  
 SOURCE: Osaka-shiritsu Daigaku Igaku Zasshi (1974), 23(1-3), 1-22  
 CODEN: OSDIAP; ISSN: 0472-1446  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Japanese  
 AB Effects of bradykinin on renal arteriogr. (RAG) were studied in exptl. animals and clin. cases. Exptl. studies were performed in pentobarbital anesthetized dogs; 10  $\mu$ g of bradykinin was injected into the renal artery 1 min prior to RAG. In comparison, with usual RAG, bradykinin dilates the renal artery, shortened washout time, increased the d. of the nephrogram, enlarged longitudinal renal size, and decreased aortic reflux. Following RAG, renal function was transiently impaired, and recovered completely 20 min after RAG. RAG with bradykinin also caused a transient impairment of renal function which was less than that in the usual RAG. In a clin. application of RAG with bradykinin, 15 $\mu$ g of bradykinin was administered into the renal artery 1 min prior to RAG. Findings similar to exptl. ones were observed. Renal vasodilating effect of bradykinin was more effective in severely damaged kidneys as in severe hydronephrosis and in the terminal stage of renal tuberculosis. Accordingly, abnormalities of the kidney were more clearly demonstrated by RAG with bradykinin. There was no significant difference in renal function before and after clin. examination, and there was no persistent histol. damage in the kidney from RAG with bradykinin. Thus, RAG with bradykinin is useful for radiol. examination, especially of the kidney of patients with severely impaired hemodynamics.

10/823377

=> d his

(FILE 'HOME' ENTERED AT 12:58:22 ON 03 MAY 2007)

FILE 'REGISTRY' ENTERED AT 12:58:33 ON 03 MAY 2007

L1 STRUCTURE UPLOADED

L2 11 S L1 SAM

L3 192 S L1 FULL

FILE 'CA' ENTERED AT 12:59:03 ON 03 MAY 2007

L4 2 S L3

FILE 'MARPAT' ENTERED AT 12:59:27 ON 03 MAY 2007

L5 1 S L1 FULL

FILE 'CA' ENTERED AT 13:01:29 ON 03 MAY 2007

L6 1 S BRANDYKININ

L7 17906 S BRADYKININ

L8 16177 S L7 AND PY<2004

L9 463 S L8 AND (VITRO AND VIVO)

L10 3 S L8 AND (CLINICAL STUD?)

=> s l9 not l10

L11 463 L9 NOT L10

=> s l11 and (inflamm? or pain or asthma)

263920 INFLAMM?

45508 PAIN

33125 ASTHMA

L12 93 L11 AND (INFLAMM? OR PAIN OR ASTHMA)

=> d ibib abs 1-10

L12 ANSWER 1 OF 93 CA COPYRIGHT 2007 ACS on STN  
 140:175133 CA  
 TITLE: Structural modifications of highly potent bradykinin antagonists and their pharmacological consequences  
 AUTHOR(S): Stewart, John M.; Gera, Lajos; Chan, Eunice J.; Chan, Daniel C.; Bunn, Paul A., Jr.  
 CORPORATE SOURCE: Department of Biochemistry and Molecular Genetics, University of Colorado Medical School, Denver, CO, 80262, USA  
 SOURCE: Peptides 2000, Proceedings of the European Peptide Symposium, 26th, Montpellier, France, Sept. 10-15, 2000 (2001), Meeting Date 2000, 945-946. Editor(s): Martinez, Jean; Fehrentz, Jean-Alain. Editions EDK: Paris, Fr. CODEN: 69EDWK; ISBN: 2-84254-048-4  
 DOCUMENT TYPE: Conference  
 LANGUAGE: English  
 AB Peptides and non-peptide bradykinin antagonists were synthesized, purified and characterized by standard methods. B-9430, which blocks both B2 and B1 receptors, is a truly outstanding antagonist. It is very potent, is totally resistant to enzymic degradation and is orally available. Use in this peptide of the new amino acid,  $\alpha$ -(2-indanylglycine) is important for conferring these remarkable properties. Higher potency was achieved with B-10206, which uses pentafluorophenylalanine and N-cycloheptylglycine. Potent and long-acting antagonists lacking the C-terminal Arg residue have been developed. Some of these are specific for B1 receptors (B-9958) or show combined B1-B2 antagonist activity (B-9858). The general desire for nonpeptide drugs has prompted the authors to develop small mol. BK antagonists. Among many compds., M-570 can be cited. While its anti-BK activity is not high, it has shown remarkable anticancer activity against small cell lung carcinoma (SCLC), both in vitro and in vivo. It is also active in vitro against prostate, colon, pancreas and breast cancer cell lines, as well as non-SCLC. The bradykinin antagonists stimulate apoptosis of cancer cells in vitro by a novel "biased agonist" mechanism; they stimulate one intracellular second-messenger pathway while inhibiting another. Taken together, these results strongly suggest that certain of these compds. should be developed as drugs for inflammation and cancers.  
 REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE  
 FORMAT

L12 ANSWER 3 OF 93 CA COPYRIGHT 2007 ACS on STN  
 139:99221 CA  
 TITLE: Role of the bradykinin B2 receptor for the local and systemic inflammatory response that follows severe reperfusion injury  
 AUTHOR(S): Souza, Danielle G.; Pinho, Vanessa; Pasquero, Jorge L.; Lomez, Eliane S.; Poole, Steve; Juliano, Luiz; Correa, Ary, Jr.; Castro, M. Salette de A.; Teixeira, Mauro M.  
 CORPORATE SOURCE: Departamento de Bioquímica e Imunologia, Instituto de Ciências Biológicas, Universidade Federal de Minas Gerais, Belo Horizonte, Brazil  
 SOURCE: British Journal of Pharmacology (2003), 139(1), 129-139  
 CODEN: BJPCBM; ISSN: 0007-1188  
 PUBLISHER: Nature Publishing Group  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB 1 Bradykinin (BK) appears to play an important role in the development and maintenance of inflammation. Here, we assessed the role of the BK B2 receptor for the injuries that occur after ischemia and reperfusion (I/R) of the territory irrigated by the superior mesenteric artery. 2 Tissue (lung and duodenum) kallikrein activity increased after ischemia with greater enhancement after reperfusion. A selective inhibitor of tissue kallikrein, Phenylacetil-Phe-Ser-Arg-N-(2,3-dinitrophenyl)-ethylendiamine (TKI, 0.001 - 10 mg ml<sup>-1</sup>), inhibited kallikrein activity in a concentration-dependent manner in vitro. In vivo, pretreatment with TKI (30 mg kg<sup>-1</sup>) prevented the extravasation of plasma and the recruitment of neutrophils. 3 Similarly, the bradykinin B2 receptor antagonists, HOE 140 (0.01 - 1.0 mg kg<sup>-1</sup>) or FR173657 (10.0 mg kg<sup>-1</sup>), inhibited reperfusion-induced increases in vascular permeability and the recruitment of neutrophils in the intestine and lungs. 4 In a model of more severe I/R injury, HOE 140 (1.0 mg kg<sup>-1</sup>) inhibited the increase in vascular permeability, neutrophil recruitment, hemorrhage and tissue pathol. Furthermore, HOE 140 significantly inhibited the elevations of TNF- $\alpha$  in tissue and serum and partially prevented lethality. This was associated with an increase in the concns. of IL-10 in tissue and serum. 5 Thus, our results demonstrate that, following intestinal I/R injury, there is an increase in tissue kallikrein activity and activation of BK B2 receptors. B2 receptor activation is essential for the development of inflammatory tissue injury and lethality. These results contrast with those of others showing that BK mostly exerts a protective role during I/R injury.  
 REFERENCE COUNT: 49 THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE  
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L12 ANSWER 2 OF 93 CA COPYRIGHT 2007 ACS on STN  
 140:75913 CA  
 TITLE: Thrombin Activatable Fibrinolysis Inhibitor, a Potential Regulator of Vascular Inflammation  
 AUTHOR(S): Myles, Timothy; Nishimura, Toshihiko; Yun, Thomas H.; Nagashima, Mariko; Morser, John; Patterson, Andrew J.; Pearl, Ronald G.; Leung, Lawrence L. K.  
 CORPORATE SOURCE: Department of Med., Division of Hematology, Stanford University School of Medicine, Stanford, CA, 94305, USA  
 SOURCE: Journal of Biological Chemistry (2003), 278(51), 51059-51067  
 CODEN: JBCHA3; ISSN: 0021-9258  
 PUBLISHER: American Society for Biochemistry and Molecular Biology  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB The latent plasma carboxypeptidase thrombin-activable fibrinolysis inhibitor (TAFI) is activated by thrombin/thrombomodulin on the endothelial cell surface, and functions in dampening fibrinolysis. In this study, the authors examined the effect of activated TAFI (TAFIa) in modulating the proinflammatory functions of bradykinin, complement C5a, and thrombin-cleaved osteopontin. Hydrolysis of bradykinin and C5a and thrombin-cleaved osteopontin peptides by TAFIa was as efficient as that of plasmin-cleaved fibrin peptides, indicating that these are also good substrates for TAFIa. Plasma carboxypeptidase N, generally regarded as the physiol. regulator of kinsin, was much less efficient than TAFIa. TAFIa abrogated C5a-induced neutrophil activation in vitro. Jurkat cell adhesion to osteopontin was markedly enhanced by thrombin cleavage of osteopontin. This was abolished by TAFIa treatment due to the removal of the C-terminal Arg168 by TAFIa from the exposed SVVYGLR  $\alpha$ 5 $\beta$ 1 integrin-binding site in thrombin-cleaved osteopontin. Thus, thrombin cleavage of osteopontin followed by TAFIa treatment may sequentially up- and down-modulate the pro-inflammatory properties of osteopontin. An engineered anticoagulant thrombin, E229K, was able to activate endogenous plasma TAFI in mice, and E229K thrombin infusion effectively blocked bradykinin-induced hypotension in wild-type, but not in TAFI-deficient, mice in vivo. The authors' data suggest that TAFIa may have a broad anti-inflammatory role, and its function is not restricted to fibrinolysis.  
 REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE  
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L12 ANSWER 4 OF 93 CA COPYRIGHT 2007 ACS on STN  
 137:135201 CA  
 TITLE: Bradykinin-related compounds as new drugs for cancer and inflammation  
 AUTHOR(S): Stewart, John M.; Gera, Lajos; Chan, Daniel C.; Bunn, Paul A., Jr.; York, Eunice J.; Simkeviciene, Vitalija; Helfrich, Barbara  
 CORPORATE SOURCE: Department of Biochemistry, University of Colorado School of Medicine, Denver, CO, 80262, USA  
 SOURCE: Canadian Journal of Physiology and Pharmacology (2002), 80(4), 275-280  
 CODEN: CJPPA3; ISSN: 0008-4212  
 PUBLISHER: National Research Council of Canada  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB Bradykinin (BK) (Arg-Pro-Gly-Phe-Ser-Pro-Phe-Arg) is an important growth factor for small-cell lung cancer (SCLC) and prostate cancer (PC). These cancers have cells of neuroendocrine origin and express receptors for a variety of neuropeptides. BK receptors are expressed on almost all lung cancer cell lines and on many PC cells. The authors' very potent BK antagonist B9430 (D-Arg-Arg-Pro-Hyp-Gly-Igl-Ser-D-Igl-Oic-Arg) (Hyp, trans-4-hydroxy-L-proline; Igl,  $\alpha$ -2-indanylglycine; Oic, octahydroindole-2-carboxylic acid) is a candidate anti-inflammatory drug but does not inhibit growth of SCLC or PC. When B9430 is dimerized by N-terminal crosslinking with a suberimide linker, the product B9870 is a potent growth inhibitor for SCLC both in vitro and in vivo in athymic nude mice. Daily i.p. injection at 5 mg/kg/day beginning on day 8 after SCLC SHP-77 cell implantation gave 65% inhibition of tumor growth. B9870 stimulates apoptosis in SCLC by a novel "biased agonist" action. The authors have also developed new small mimetic antagonists. BHM-570 (P5C-OC2Y-Atmp) (P5C, pentafluorocinnamic acid; OC2Y, O-2,6-dichlorobenzyl tyrosine; Atmp, 4-amino-2,2,6,6-tetramethylpiperidine) is very potent for inhibition of SHP-77 growth in nude mice. When injected daily i.p. at 5 mg/kg, M-570 gave 90% suppression of tumor growth. M-570 is more potent than the well-known anticancer drug cisPlatin (60% inhibition) or the recently developed SU5416 (40% inhibition) in this model. M-570 also showed activity against various other cancer cell lines in vitro (SCLC, non-SCLC, lung, prostate, colon, cervix) and inhibited growth of prostate cell line PC3 in nude mice. M-570 and related compds. evidently act in vivo through pathways other than BK receptors. These compds. have clin. potential for treatment of human lung and prostate cancers.  
 REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE  
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L12 ANSWER 5 OF 93 CA COPYRIGHT 2007 ACS on STN  
 136.114233 CA  
 TITLE: Reciprocal regulation of endothelial substrate adhesion and barrier function  
 AUTHOR(S): Alexander, J. Steven; Zhu, Yanan; Elrod, John W.; Alexander, Brett; Coe, Laura; Kalogeris, T. J.; Puebler, John  
 CORPORATE SOURCE: Department of Molecular and Cellular Physiology, Health Sciences Center, Louisiana State University, Shreveport, LA, 71130, USA  
 SOURCE: Microcirculation (New York, NY, United States) (2001), 8(6), 389-401  
 CODEN: MROCR; ISSN: 1073-9688  
 PUBLISHER: Nature Publishing Group  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB To examine how cell-substrate adhesion is regulated during barrier changes produced by exposure to inflammatory mediators. Lung microvascular endothelial monolayers were treated with test agents without/with blockers, and barrier was measured by transendothelial resistance; cell-substrate adhesion was assessed by surface area conservation after trypsin treatment of monolayers. Protein phosphorylation and distribution were assayed by immunoblotting and fluorescent microscopy, resp. H2O2, histamine, bradykinin, and thrombin, decreased endothelial barrier function, and enhanced adhesion to the substratum. H2O2 enhanced cell adhesion to the substrate in a concentration (0-1 mM)- and time (0-60 min)-dependent fashion. This effect of H2O2 reversed within 120 min of removal of H2O2 and was blocked by the mean arterial pressure (MAP) kinase inhibitor, PD98059 and by chelating cytoplasmic Ca2+ but not PKG or PKG inhibition. H2O2 also stimulated tyrosine phosphorylation of several proteins and increased the association of the focal adhesive proteins paxillin, talin, and vinculin with the cytoskeleton and may promote localization of these proteins to junctions. These data indicate that inflammatory mediators reduce cell-cell contact, contributing to reduced solute barrier and simultaneously enhanced substrate binding, which may be reciprocal events in barrier regulation in vitro and in vivo.  
 REFERENCE COUNT: 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS  
 FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

L12 ANSWER 7 OF 93 CA COPYRIGHT 2007 ACS on STN  
 136.113379 CA  
 TITLE: Oleonic acid, a 3-oxotriterpene from Pistacia, inhibits leukotriene synthesis and has anti-inflammatory activity  
 AUTHOR(S): Giner-Larza, E. M.; Manes, S.; Recio, M. C.; Giner, R.  
 CORPORATE SOURCE: M.; Prieto, J. M.; Cerda-Nicolas, M.; Rios, J. L. Departament de Farmacologia, Universitat de Valencia, Facultat de Farmacia, Valencia, Burjassot, 46100, Spain  
 SOURCE: European Journal of Pharmacology (2001), 428(1), 137-143  
 CODEN: EJPHAZ; ISSN: 0014-2999  
 PUBLISHER: Elsevier Science B.V.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB One of the best known bioactive triterpenoids is oleonic acid, a widespread 3-hydroxy-17-carboxy oleanane-type compound. To determine whether further oxidation of carbon 3 affects anti-inflammatory activity in mice, different tests were carried out on oleonic acid and its 3-oxo-analog oleonic acid, which was obtained from Pistacia terebinthus galls. The last one showed activity on the ear edema induced by 12-deoxyphorbol-13-phenylacetate (DPP), the dermatitis induced by multiple applications of 12-O-tetradecanoyl-13-acetate (TPA) and the paw edemas induced by bradykinin and phospholipase A2. The production of leukotriene B4 from rat peritoneal leukocytes was reduced by oleonic acid with an IC50 of 17 µM. Negligible differences were observed in the response of both triterpenes to DPP, bradykinin, and phospholipase A2, while oleonic acid was more active on the dermatitis by TPA and on the in vitro leukotriene formation. In conclusion, the presence of a ketone at C-3 implies an increase in the inhibitory effects on models related to 5-lipoxygenase activity and on associated in vivo inflammatory processes.  
 REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS  
 FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

L12 ANSWER 6 OF 93 CA COPYRIGHT 2007 ACS on STN  
 136.132677 CA  
 TITLE: Regulation of leukocyte recruitment by polypeptides derived from high molecular weight kininogen  
 AUTHOR(S): Chavakis, Triantafyllos; Kanse, Sandip M.; Pixley, Robin A.; May, Andreas E.; Isordia-Salas, Irma; Colman, Robert W.; Praesener, Klaus T.  
 CORPORATE SOURCE: Institute for Biochemistry, and Third Department of Internal Medicine, Justus-Liebig-Universität, Giessen, Germany  
 SOURCE: FASEB Journal (2001), 15(13), 2365-2376  
 CODEN: FAJOC; ISSN: 0892-6638  
 PUBLISHER: Federation of American Societies for Experimental Biology  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB Proteolytic cleavage of single-chain, high mol. weight kininogen (HK) by kallikrein releases the short-lived vasodilator bradykinin and leaves behind a two-chain, high mol. weight kininogen (HKA) reported to bind to the B2-integrin Mac-1 (CR3, CD11b/CD18, αMB2) on neutrophils and exert antiadhesive properties by binding to the urokinase receptor (uPAR) and vitronectin. The authors define the mol. mechanisms for the antiadhesive effects of HK related to disruption of B2-integrin-mediated cellular interactions in vitro and in vivo. In a purified system, HK and HKA inhibited the binding of soluble fibrinogen and ICAM-1 to immobilized Mac-1, but not the binding of ICAM-1 to immobilized LFA-1 (CD11a/CD18, αLβ2). This inhibitory effect could be attributed to HK domain 5 and to a lesser degree to HK domain 3, consistent with the requirement of both domains for binding to Mac-1. Accordingly, HK, HKA, and domain 5 inhibited the adhesion of Mac-1 but not LFA-1-transfected K562 human erythroleukemic cells to ICAM-1. Moreover, adhesion of human monocytic cells to fibrinogen and to human endothelial cells was blocked by HK, HKA, and domain 5. By using peptides derived from HK domain 5, the sequences including amino acids H475-Q497 (and to a lesser extent, G440-H455) were identified as responsible for the antiadhesive effect, which was independent of uPAR. Finally, administration of domain 5 into mice, followed by induction of thioglycollate-provoked peritonitis, decreased the recruitment of neutrophils by ~70% in this model of acute inflammation. Taken together, HKA (and particularly domain 5) specifically interacts with Mac-1 but not with LFA-1, thereby blocking Mac-1-dependent leukocyte adhesion to fibrinogen and endothelial cells in vitro and in vivo and serving as a novel endogenous regulator of leukocyte recruitment into the inflamed tissue.  
 REFERENCE COUNT: 56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS  
 FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

L12 ANSWER 8 OF 93 CA COPYRIGHT 2007 ACS on STN  
 136.135612 CA  
 TITLE: Effects of ANG II on bradykinin receptor gene expression in cardiomyocytes and vascular smooth muscle cells  
 AUTHOR(S): Kintsarashvili, Ekaterina; Duke, Irene; Gavras, John; Conrado, Farmakiotis, Dimitrios; Gavras, Haralambos  
 CORPORATE SOURCE: Hypertension and Atherosclerosis Section, Department of Medicine, Boston University School of Medicine, Boston, MA, 02118, USA  
 SOURCE: American Journal of Physiology (2001), 281(4, Pt. 2), H1778-H1783  
 CODEN: AJPHAP; ISSN: 0002-9513  
 PUBLISHER: American Physiological Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB Bradykinin has vasodilatory and tissue-protective effects exerted via its B2 type receptor, whereas the B1 receptor is constitutively absent but inducible by inflammation and toxins. In previous studies, the authors found that B2 receptor gene knockout mice exhibit overexpression of the B1 receptor, which assumes a vasodilatory function and is further upregulated in renovascular hypertension. The present study was designed to explore the effects of excess angiotensin II (ANG II) on B1 receptor and B2 receptor gene expression in mouse cardiomyocytes and rat vascular smooth muscle cells (VSMC) in vivo (after a 3-day infusion of 30 ng/min ANG II in 11 wild-type and in 13 genetically engineered mice with deleted B2 receptor gene) and in vitro (ANG II added in rat VSMC culture in the presence or absence of AT1 or AT2 receptor antagonist). Expression of B1 and B2 receptor mRNA was assessed by reverse transcriptase-polymerase chain reaction. ANG II infusion caused upregulation by 30% of the already significantly overexpressed B1 receptors in cardiomyocytes of the B2 receptor gene knockout mice, but in the wild-type mice it upregulated only the B2 receptor mRNA by 47%. The addition of ANG II in VSMC culture produced a time-dependent induction of B1 and upregulation of B2 receptor gene expression, maximal at 3 h (by fivefold), declining almost to baseline by 24 h. The addition of losartan completely blocked this effect, whereas the AT2 blocker PD-123179 made no difference, indicating that this is an AT1-mediated effect of ANG II. The data indicate that excess ANG II in suppressor doses in vivo upregulates expression of the B2 receptor, but in its absence, the already overexpressed B1 receptor is further upregulated, evidently assuming a counterregulatory response: in vitro, it transiently upregulates both bradykinin receptors.  
 REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS  
 FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

L12 ANSWER 9 OF 93 CA COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 136:1040 CA  
TITLE: Proinflammatory characteristics of a nonpeptide  
bradykinin mimic, FR190997, in vivo  
AUTHOR(S): Hayashi, Izumi; Ishihara, Keiko; Kumagai, Yuji;  
Majima, Masataka  
CORPORATE SOURCE: Department of Pharmacology, Kitasato University  
School  
SOURCE: of Medicine, Sagami, 228-8555, Japan  
British Journal of Pharmacology (2001),  
133(8), 1296-1306  
CODEN: BJPCBM; ISSN: 0007-1188  
PUBLISHER: Nature Publishing Group  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
AB Proinflammatory potency of the nonpeptide bradykinin (BK) B2  
receptor agonist FR190997 (8-[2,6-dichloro-3-[N-[(E)-4-(N-  
methylcarbamoyl)cinnaamidoacetyl]-N-methylemino]benzyl]oxy]-2-methyl-4-(2-  
pyridylmethoxy)quinoline) was investigated. Intradermal injection of  
FR190997 (0.03-3 nmol site-1) into dorsal skin of rats increased vascular  
permeability in a dose-dependent manner. The effect was less than that  
of BK, but it was long-acting and was inhibited by treatment with FR173657  
(3 mg kg<sup>-1</sup>, p.o.). Captopril (10 mg kg<sup>-1</sup>, i.p.) did not enhance the plasma  
extravasation by FR190997 (0.3 nmol site-1) in the presence of soybean  
trypsin inhibitor (SBTI, 30 µg site-1). S.c. injection of FR190997 (3  
nmol site-1) into the hindpaw of mice markedly induced paw swelling. The  
edema lasted up to 3 h after the injection. Administration of  
indomethacin or NS-398 (10 mg kg<sup>-1</sup>, i.p.) significantly reduced it at 3 h  
after the injection. Simultaneous i.p. injection of prostaglandin (PG)  
E2 (1 nmol site-1) or beraprost sodium (0.5 nmol site-1) with FR190997 (5  
nmol site-1) greatly enhanced frequency of writhing reactions in mice.  
FR190997 (0.3-30 nmol kg<sup>-1</sup>, i.v.) showed less increase in airway opening  
pressure (Pao) in the guinea-pig after i.v. injection. Furthermore,  
FR190997 (0.03-30 nmol) resulted in a very weak contraction of tracheal  
ring strips and lung parenchymal sections in vitro. In mice  
sponge implants, topical application of FR190997 increased angiogenesis  
and granulation with enhanced expressions of basic fibroblast growth  
factor (bFGF) and vascular endothelial growth factor (VEGF) mRNAs. These  
results indicate that FR190997 has proinflammatory long-lasting  
characteristics and it might be "a stable tool" for studying the role of  
BK B2 receptor in vivo.  
REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR  
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FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

L12 ANSWER 10 OF 93 CA COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 135:3934 CA  
TITLE: Endothelial kinin B1-receptors are induced by  
myocardial ischaemia-reperfusion in the rabbit  
AUTHOR(S): Mazenot, C.; Loufrani, L.; Henrion, D.; Ribouot, C.;  
Muller-Esterl, W.; Godin-Ribuot, D.  
CORPORATE SOURCE: LSCPA, UFR Pharm., Université Grenoble I, Fr.  
SOURCE: Journal of Physiology (Cambridge, United Kingdom) (2001), 530(1), 69-78  
CODEN: JPHYA7; ISSN: 0022-3751  
PUBLISHER: Cambridge University Press  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
AB Kinin B1-receptors are induced by various inflammatory stimuli.  
Since myocardial ischemia-reperfusion results in inflammation,  
we questioned whether it could induce B1-receptor-dependent responses to  
des-Arg9-bradykinin (DBK). Thirty-six rabbits were submitted  
either to a 30 min coronary occlusion followed by a 3 h reperfusion or to  
a sham operation. The response to DBK was then tested in vivo  
on mean arterial pressure (MAP) and in vitro on isolated hearts  
and arterial rings. DBK induced a dose-dependent decrease in MAP in the  
ischemia-reperfusion group (DBK, 10 µg kg<sup>-1</sup>, intra-arterial: -12 ± 2  
vs. -5 ± 2 mmHg in the sham group, P < 0.02), which was significantly  
antagonized by [Leu8]-des-Arg9-bradykinin (LBK), a B1-receptor  
antagonist. Following ischemia-reperfusion, isolated hearts responded to  
DBK by a decrease in coronary perfusion pressure greater than that of the  
sham group. DBK dose-dependently decreased the isometric force of  
isolated carotid rings (DBK, 10-5 M: -9 ± 2 vs. -1 ± 2% in the sham  
group, P < 0.02) and mesenteric arteries (DBK, 10-6 M: -38 ± 7% vs. -3  
± 2% in the sham group, P < 0.001). The vascular effects of DBK seen  
after ischemia-reperfusion were significantly antagonized by LBK. The  
presence of B1-receptors in ischemia-reperfusion animals was confirmed by  
immunolocalization and Western blot anal. This study demonstrates that  
myocardial ischemia-reperfusion induces a global induction of functional  
kinin B1-receptors in the endothelium.  
REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR  
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---Logging off of STN---

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Executing the logoff script...

=> LOG Y

STN INTERNATIONAL LOGOFF AT 13:08:35 ON 03 MAY 2007